

Purpose

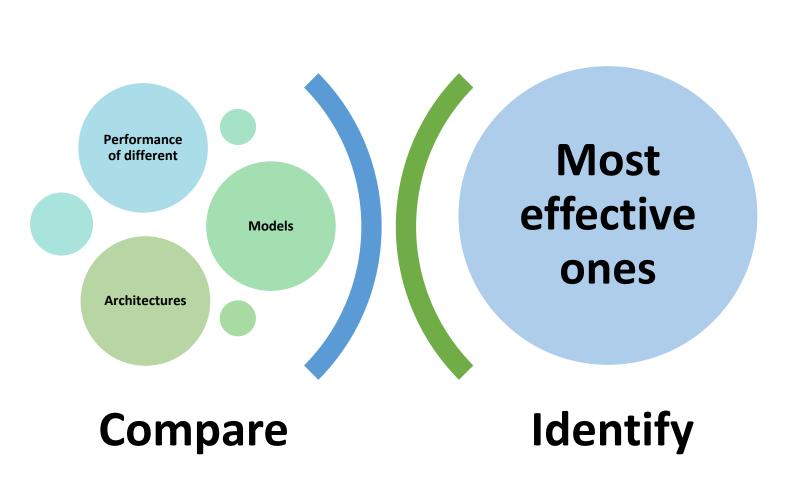
The purpose of the section is to help you learn how to research, select, and develop appropriate algorithms to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

 How to compare the performance of different models and architectures to identify the most effective ones











How to compare the performance of different models and architectures to identify the most effective ones

Define Evaluation Metrics



Split Data into Training, Validation, and Test Sets



Train Multiple Models and Architectures



Hyperparameter Tuning



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How to compare the performance of different models and architectures to identify the most effective ones

Evaluate Models on Validation Set



Select Best-Performing Model



Evaluate Final Model on Test Set









With that we complete the Model Selection and Evaluation

Model Selection and Evaluation

Select candidate machine learning algorithms or deep learning architectures based on their suitability for the problem and data.

Train and evaluate multiple models using appropriate evaluation metrics and validation techniques (e.g., crossvalidation, hyperparameter tuning).

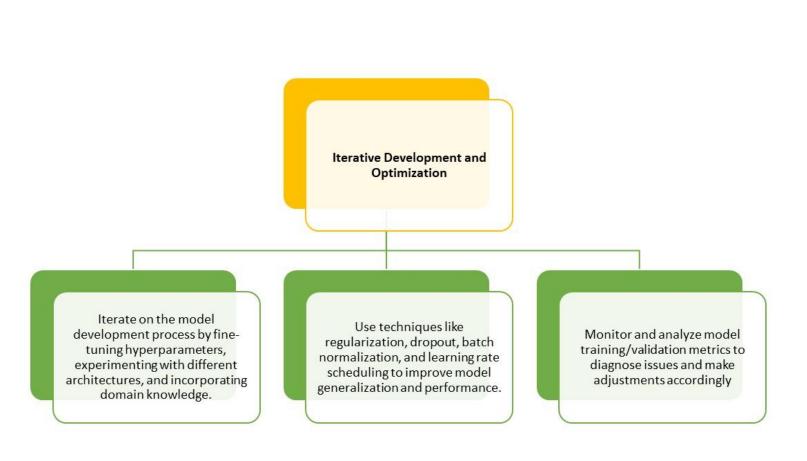
Compare the performance of different models and architectures to identify the most effective ones.





What is next?

And get into Iterative Development and Optimization









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